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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: AGA=6B

In re Application of:	)	Art Unit: 2833
	)	
Hajime AGA et al	)	Examiner:
	)	
Appln. No.: 10/670,525	)	Washington, D.C.
	)	
Filed: September 26, 2003	)	May 17, 2004
	)	
For: REDUCTION INHIBITORY AGENT	)	Confirmation No.: 6498
FOR ACTIVE-OXYGEN...	)	
	)	

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner of Patents and Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir :

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

[X] 1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed before the mailing date of a first office action on the merits.

[X] 2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., form PTO/SB/08A) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached.

[X] Documents AQ-AS are U.S. patents and/or published applications. As this is a U.S. application filed after June 30, 2003, or an entry into national stage under 35 USC §371 after June 30, 2003, the requirement to file copies of such U.S. patents or published applications has been waived. (Office of Patent Legal Administration - Pre O.G. Notice of July 11, 2003).

[X] 3. Documents BD-BF, BL and BN-CA are not in the English language. In accordance with §1.98(a)(3), Applicants state:

[X] An English translation of each document BD-BF, BL and BN-CA (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed.

[X] A concise explanation of the relevance of documents BD-BF, BL and BN-CA is found in the attached Partial European Search Report (see reply to Comment 68 in the preamble to the final rules; 1135 OG 13 at 20).

[X] 4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20). However, a concise explanation of relevance is being provided in the form of the attached Partial European Search Report.

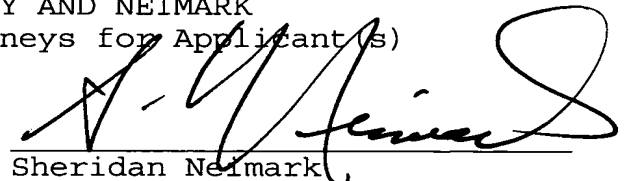
6. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise

indicated, the date of publication indicated for an item is taken from the face of the item and Applicant(s) reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/670,525
Filing Date	9-26-2003
First Named Inventor	Hajime AGA et al
Group Art Unit	2833
Examiner Name	
Attorney Docket Number	GA=6B

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AQ	US-4,963,385	10-16-1990	ANTRIM et al	
	AR	US-5,169,767 A	12-8-1992	MATSUURA et al	
	AS	US-5,567,424 A	10-22-1996	HASTINGS	
	US-				
	US-				
	US-				
	US-				

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	AT	EP 0 297 887 A1	01-04-1989	QUADRANT BIORESOURCES LIMITED		
	AU	EP 0 556 838 A1	08-25-1993	TAKEDA CHEMICAL INDUSTRIES, LTD.		
	AV	EP 0 628 630 A2	12-14-1994	KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU KAGAKU KENKYUJO		
	AW	EP 0 636 693 A2	02-01-1995	KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU KAGAKU KENKYUJO		
	AX	EP 0690 130 A1	06-27-1994	KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU KAGAKU KENKYUJO		
	AY	EP 0 691 344 A1	01-10-1996	KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU KAGAKU KENKYUJO		
	AZ	EP 0 739 986 A1	10-30-1996	KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU KAGAKU KENKYUJO		
	BA	EP 0 784 095 A2	07-16-1997	MOGEN INTERNATIONAL N.V.		
	BB	EP 0 816 509 A2	01-07-1998	IEBT-INSTITUTO DE BIOLOGIA EXPERIMENTAL E TECNOLOGICA		
	BC	EP 0 933 428 A2	08-04-1999	UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO		
	BD	JP 07-79739 A	03-28-1995	SANEI GEN F F I INC		Abs
	BE	JP 09-163943 A	06-24-1997	AJINOMOTO CO INC		Abs
	BF	JP 09-275994 A	10-28-1997	SHIZUOKA PREFECTURE		Abs
	BG	WO 93/00807 A1	01-21-1993	CRYOLIFE INC		
	BH	WO 95/01446 A1	01-12-1995	MOGEN INTERNATIONAL N.V.		
	BI	WO 95/06126 A1	03-02-1995	HOEKEMA et al		

Examiner  
SignatureDate  
Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
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				Filing Date	9-26-2003
				First Named Inventor	Hajime AGA et al
				Group Art Unit	2833
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				Attorney Docket Number	AGA=6B
Sheet	2	of	3		

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Examiner Signature		Date Considered	
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		Examiner Name	
Sheet 3	of 3	Attorney Docket Number	AGA=6B

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	CB	ARGALL, et al., "The Use of Trehalose-Stabilized Lyophilized Methanol Dehydrogenase from <i>Hyphomicrobium</i> X for the Detection of Methanol", Biochemistry and Molecular Biology International. July 1993, Vol. 30, No. 3, 491-497.	
	CC	CARPENTER, et al., "Modes of Stabilization of a Protein by Organic Solutes During Desiccation", Cryobiology. 1998, Vol. 25, 459-470.	
	CD	CARPENTER, et al, "Separation of Freezing- and Drying-Induced Denaturation of Lyophilized Proteins Using Stress-Specific Stabilization", Archives of Biochemistry and Biophysics. June 1993, Vol. 303, No. 2, 456-464.	
	CE	CARPENTER, et al., "Stabilization of Phosphofructokinase during Air-Drying with Sugars and Sugar/Transition Metal Mixtures", Cryobiology. 1987, Vol. 24, 455-464.	
	CF	CARPENTER, et al., "Stabilization of Phosphofructokinase with Sugars During Freeze-Drying: Characterization of Enhanced Protection in the Presence of Divalent Cations", Biochimica et Biophysica Acta. 1987, Vol. 923, 109-115.	
	CG	GODDIJN, et al., "Inhibition of Trehalase Activity Enhances Trehalose Accumulation in Transgenic Plants", Plant Physiology. 1997, Vol. 113, 181-190.	
	CH	HAJIME, et al., "Stabilization by Trehalose of Superoxide Dismutase-like Activity of Various Vegetables", Nippon Shokuhin Kagaku Kogaku Kaishi. 1998, Vol. 45, 210-215.	
	CI	LIPPERT, et al., "Enzyme Stabilization by Ectoime-Type Compatible Solutes: Protection Against Heating, Freezing and Drying", Appl. Microbiol. Biotechnol. 1992, Vol. 37, 61-65.	
	CJ	RAMOS, et al., "Stabilization of Enzymes against Thermal Stress and Freeze-Drying by Mannosylglycerate", Applied and Environmental Microbiology. October 1997, Vol. 63, No. 10, 4020-4025.	
	CK	ROSER, et al., "A Sweeter Way to Fresher Food", New Scientist, IPC Magazines, 15 May 1993, Vol. 138, 25-28.	
	CL	ROSER, Bruce, "Trehalose Drying: A Novel Replacement for Freeze-Drying", Biopharm., 1 September 1991, vol. 4, no. 8, 47-53.	
	CM	ROSER, Bruce, "Trehalose, a New Approach to Premium Dried Foods", Trends in Food Science & Technology. July 1991, 166-169.	
	CN	SALEK, et al., "Trehalose - Stabilisation of Osmophilicity and Viability of Baker's and Distiller's Yeast: Applications to Storage and Drying", Chem. Mikrobiol. Technol. Lebensm. 1995. Vol. 17, No. 1/2, 14-21.	
	CO	SUN, et al., "Cytoplasmic Vitrification and Survival of Anhydrobiotic Organisms", Comp. Biochem. Physiol. 1997, Vol. 117A, No. 3, 327-333.	
	CP	URITANI, et al, "Protection Effect of Disaccharides on Restriction Endonucleases During Drying under Vacuum", J Biochem, 1995, vol. 117, 774-449.	

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